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(54) **ANTI-CD40 MONOCLONAL ANTIBODY**

(57) An antibody or a functional fragment thereof, acting agonistically or antagonistically on CD40.

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP02/04292

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl.<sup>7</sup> C07K16/28, C12N15/13, C12N5/10, C12P21/08, A61K39/395,  
A61P35/00, A61P37/04, A61P37/06, A61P37/08, A61P7/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.<sup>7</sup> C07K16/28, C12N15/13, C12N5/10, C12P21/08, A61K39/395,  
A61P35/00, A61P37/04, A61P37/06, A61P37/08, A61P7/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

SwissProt/PIR/Geneseq, WPI (DIALOG), BIOSIS (DIALOG), JICST FILE (JOIS)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	Ledbetter, J. A. et al., Agonistic activity of a CD40-specific single-chain Fv constructed from the variable regions of mAb G28-5. Crit. Rev. Immunol., 1997, Vol.17, Nos.5 to 6, pages 427 to 435	1-16, 28, 29 27
X Y	Zhou, Z. H. et al., An agonist anti-human CD40 monoclonal antibody that induces dendritic cell formation and maturation and inhibits proliferation of a myeloma cell line. Hybridoma, Vol.18, No.6, pages 471 to 478 (1999)	1-16, 28, 29 27
X Y	de Boer, M. et al., Generation of monoclonal antibodies to human lymphocyte cell surface antigens using insect cells expressing recombinant proteins. J. Immunol. Methods, Vol.152, No.1, pages 15 to 23 (1992)	17-26, 28, 30 27

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

\* Special categories of cited documents:

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
T	Boon, L. et al., Preclinical assessment of anti-CD40 Mab 5D12 in cynomolgus monkeys. Toxicology, Vol.174, pages 53 to 65(2002)	17-26,28,30
Y	Tomizuka, K. et al., Double trans-chromosomic mice: Maintenance of two individual human chromosome fragments containing Ig heavy and Ioci and expression of fully human antibodies. Proc. Natl. Acad. Sci. USA, Vol.97, No.2, pages 722 to 727(2000)	27
Y	WO 98/37757 A1 (Kirin Beer), 03 September, 1998 (03.09.98), & EP 972445 A1	27

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